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Business Opportunity

"Finally, competitive distributed power!"

"...I calculated a value of the thermal efficiency [of the Wilson turbine] of 56.9%"

Peter E. Jenkins, PhD, PE
Dean, College of Engineering & Applied Science
University of Colorado at Denver

100+% annual ROI to turbine owners/operators

Business Opportunity

50% Efficient Super Turbines

MIT patents, exclusive license; 10 patents in process

- Base-load/peaking
- Substations
- Distributed power
- Combined Heating/Power (CHP)

Timeline

- Prototyping, testing ceramic blisks
- First turbine fabrication Q4 06, testing 2007
- 2007-09 Likely sale/license to global company for commercialization

Team

- David Gordon Wilson – Founder, Chief Scientist & Director
  - MIT professor
  - World–renowned expert, author on turbines & heat transfer
  - GE, Lincoln Laboratory, Boeing, Los Alamos Laboratory, Northern Research, …
  - Designed 10MW turbine compressor: worked perfectly on 1st run
- Bruce Anderson – Founder, CEO & Director
  - 30-year veteran energy entrepreneur
  - Recipient, first "Outstanding Solar Contributor", American Solar Energy Society
  - Twice testified to Congress on energy matters
  - 3 MIT degrees
- Jon Ballou – Chief Product Engineer
  - 22 years mechanical/electrical R&D, engineering, testing

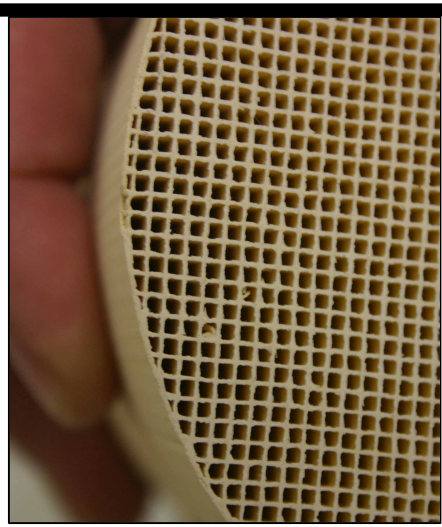
Team, cont.

Advisors

- Yet-Ming Chiang – Ceramics Expert
  - MIT Kyocera Prof. of Ceramics, Founder American Superconductor & A123 Systems
- Kymus Ginwala – Microturbine & Heat-Exchanger Executive
  - Former CEO NREC (now Ingersoll-Rand Microturbines & Concepts NREC)
- Lars Malmrup – Microturbine engineer and executive
  - Founder, CTO Turbec (former ABB/Volvo microturbine joint venture. Including ceramic rotary heat exchanger engineering)
- George Touchton – Microturbine engineer
  - Former CTO, Solo Microturbines

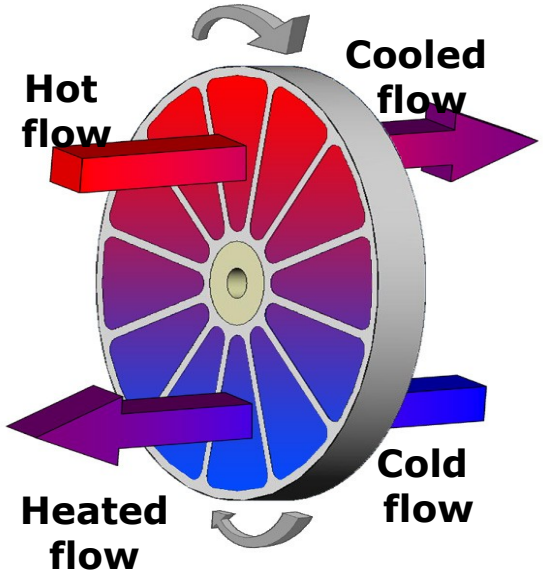
Initial Product

High-temperature Ceramic Heat Exchangers



1st major heat exchanger breakthrough in decades!

- **Super hot:** 700º – 1200º C
- **Super cool:** -50º to -90º C



- **Less expensive:** 50% – 90% cost reduction
- **Small:** 25% – 75% weight, size reduction (2 – 6ft diameter; 6 – 8in thick)
- **Super efficient:** up to 97.5% effectiveness

Enabling Technology

Heat exchanger is key enabling technology for 50% turbine

- **$6B+ market for our heat exchanger**

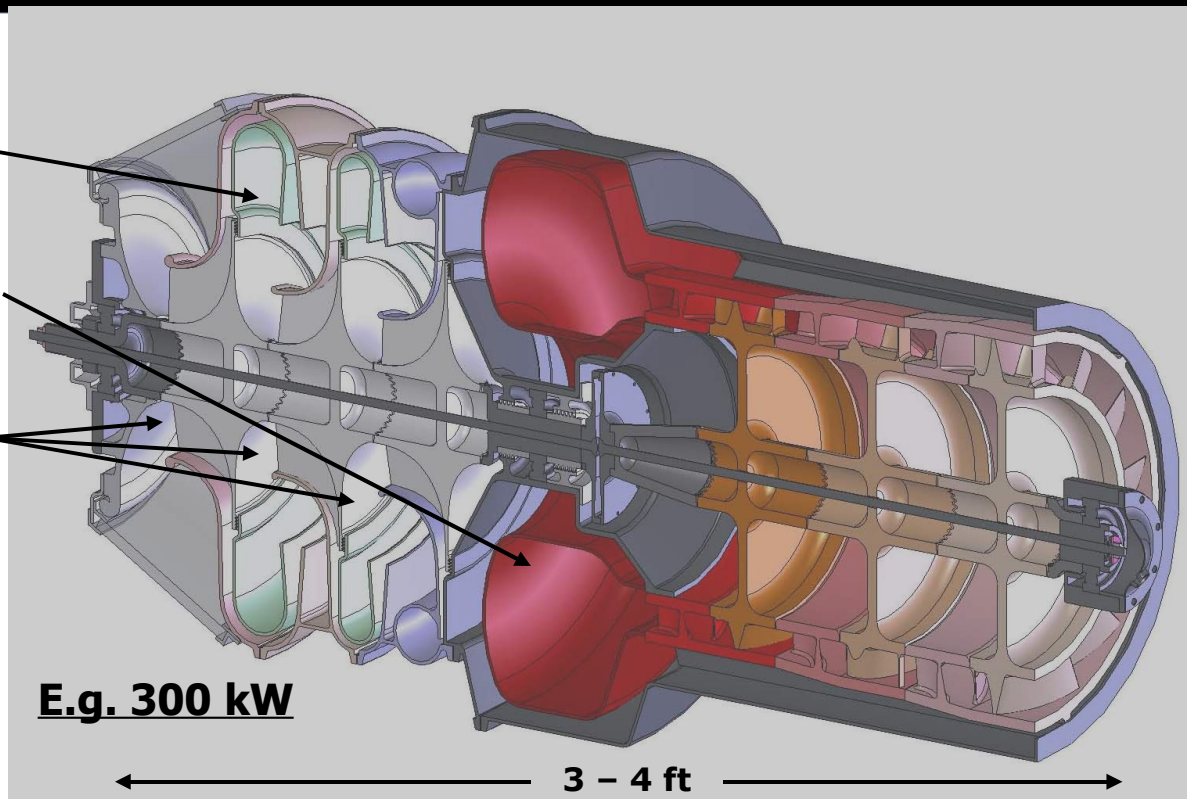
but

- **$100+B market for our turbine**

Primary Product

50% Efficient Super Turbines

"Finally, competitive distributed power!"



- **Lowest cost**
  Most reliable
  heat/power anywhere
- Burns gas, diesel, jet fuel, LP, biogas…
- Low emissions
  <5 ppm NOx, <10 ppm CO2

50 kW – 5 MW

- Base-load/peaking
- Substations
- Distributed power
- Combined Heating/Power

Power Generation Options

Power Generation Options	CapEx per kWe	Operating Efficiency	Electric Rate $/kWe-hr
Wilson's super turbine	**$1500-2000**	**50% 80 – 90% CHP**	**$0.05 – 0.10**
Utility power	$750 – 2000	33% average grid 50% new gas-fired	$0.05 – 0.15
IC Recip	$750 – 1500	25 – 35%	$0.08 – 0.17
Current Microturbines	$1500 – 2000	25 – 35%	$0.10 – 0.20
Wind	$3000 – 5000		$0.10 – 0.20
Photovoltaics	$8000 – 12,000	10 – 15%	$0.25 – 0.40

Company Overview

History

- Founded 2001
- MIT Heat Transfer Laboratory technology
- Exclusive MIT license; 10 more in process
- $2,250,000 raised, individual investors

Business Model: develop, not commercialize

Heat Exchanger

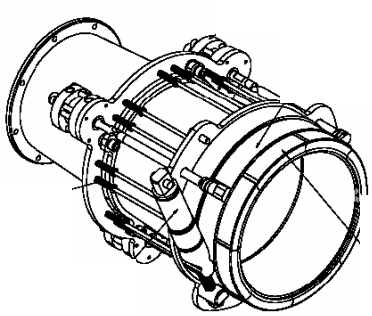
- Supplier; outsource manufacturing
- Then sell/license technology, 2006/07

Turbine

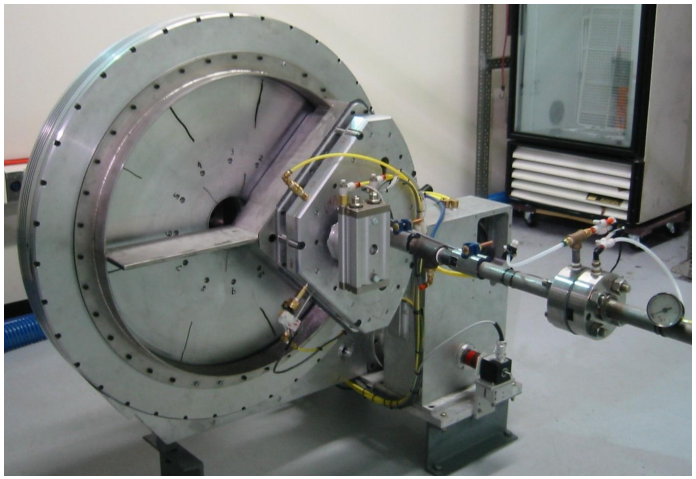
- Develop, not commercialize
- Then sell/license technology 2007/09

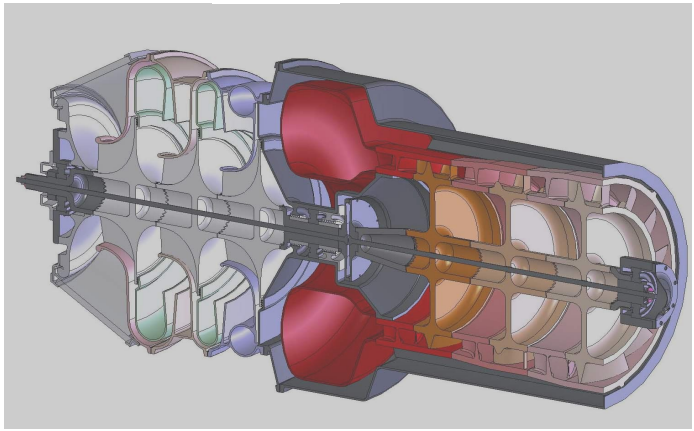
Company Status

- Selling a line of heat exchangers
  Cerotex™, Ceroflex™ and Cerotest™



- High-temp fuel cells
- Power generation to 10'sMW
- Numerous industrial processes
- Biological, chemical purification
- Cryogenic cooling





- Final engineering of turbine
  - Prototyping, testing ceramic blisks
  - Fabrication Q4 06, testing 2007

100+% annual ROI for turbine owners/operators

Example: own, operate 300kW Wilson turbine, sell power

Cash investment: 20% down, 80% financed	$90,000
Annual revenues net expenses	$95,000 to $205,000
Annual ROI	**100% - 200%**

Investment Summary

- Raising $1,500,000
  - Substantially subscribed by current investors
  - Big step-function increase in value upon engineering completion Q4 06
- One more round anticipated, 2007
  - ~ $8,000,000
- Likely exit: trade sale to global commercialization company within 4 years
  - ~ 10 - 20x return

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